## ...AGARA PALIKE, YELAHANKA ZONE

**Executive Engineeer**
**Byatarayanapura Division**
**B.B.M.P., Bangalore - 92**

## DRAFT TENDER SCHEDULE

**Issued to :**

**Original / Duplicate**

**Name of Work: Construction of RO Plant in Ward No. 06 Byatarayanapura Sub Division**

| Sl. No. | Quantity. | Description | Unit | Rates | |
|---|---|---|---|---|---|
| | | | | In Figures | In Words |
| 1 | 24.78 | KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / item no 2.3 page no 6 **of PWD SR 2018-19** | Cum | 322.92 | Rupees Three Hundred Twenty Two and Ninety Two Paise Only |
| 2 | 4.08 | KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8( M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.13 Item No | Cum | 5510.16 | Rupees Five Thousand Five Hundred Ten and Sixteen Paise Only |
| 3 | 2.71 | KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Pg No.25 Item No 5.6 **PWD SR 2018-19** | Cum | 4963.68 | Rupees Four Thousand Nine Hundred Sixty Three and Sixty Eight Paise Only |
| 4 | 1.83 | KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Pg No.25 Item No 5.9 **PWD SR 2018-19** | Cum | 5921.64 | Rupees Five Thousand Nine Hundred Twenty One and Sixty Four Paise Only |
| 5 | 24.78 | Filling available excavated earth ( excluding rock ) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9, Pg No.7, Item No.2.10 **PWD SR 2018-19** | Cum | 217.08 | Rupees Two Hundred Seventeen and Eight Paise Only |
| 6 | 33.96 | KSRB 5-15 : Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., complete as per specifications. KBS No.5.4, Pg No 27, Item No 5.28 **PWD SR 2018-19** | Sqm | 875.88 | Rupees Eight Hundred Seventy Five and Eighty Eight Paise Only |
| 7 | 8.74 | Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing , main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2018-19** | Cum | 5879.52 | Rupees Five Thousand Eight Hundred Seventy Nine and Fifty Two Paise Only |

| Sl. No. | Quantity. | Description | Unit | Rates | |
|---|---|---|---|---|---|
| | | | | In Figures | In Words |
| 8 | 0.70 | KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 18 / Item No. 4.46.2, PWD SR 2018-19** | Tonne | 76643.28 | Rupees Seventy Six Thousand Six Hundred Forty Three and Twenty Eight Paise Only |
| 9 | 65.19 | KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 16 / Item No. 4.31 PWD SR 2018-19** | Sqm | 386.64 | Rupees Three Hundred Eighty Six and Sixty Four Paise Only |
| 10 | 18.81 | KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to **ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 116, Item No. 15.21 of PWD SR 2018-19** | Sqm | 253.80 | Rupees Two Hundred Fifty Three and Eighty Paise Only |
| 11 | 37.23 | KSRB15-3.12 :Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 114, Item No. 15.20 of PWD SR 2018-19 (Inside Plastering)** | Sqm | 274.32 | Rupees Two Hundred Seventy Four and Thirty Two Paise Only |
| 12 | 56.04 | KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. **Page No. 117, Item No. 15.33, PWD SR 2018-19** | Sqm | 34.56 | Rupees Thirty Four and Fifty Six Paise Only |
| 13 | 42.03 | KSRB15-3.9 :Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 116 / Item No. 15.17, PWD SR 2018-19 (Outside Wall)** | Sqm | 264.60 | Rupees Two Hundred Sixty Four and Sixty Paise Only |
| 14 | 93.27 | KSRB 15-14.1 : Providing and **applying two coats with oil bound washable distemper** of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. **Page No. 119 / Item No. 15.49.1, PWD SR 2018-19** | Sqm | 118.80 | Rupees One Hundred Eighteen and Eighty Paise Only |
| 15 | 42.03 | KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. **Page No. 120 / Item No. 15.53.2, SR 2018-19** | Sqm | 50.76 | Rupees Fifty and Seventy Six Paise Only |
| 16 | 29.43 | KSRB 15-18.2 : Providing and applying enamel metal paint two coats ( excluding priming coat ) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (**Page No. 123 Item No. 15.74 of SR 2018-19**). | Sqm | 102.60 | Rupees One Hundred Two and Sixty Paise Only |
| 17 | 12.41 | Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete. **(P.No. 109, I.No. 14.43 of SR 2018-19).** | Sqm | 1186.92 | Rupees One Thousand One Hundred Eighty Six and Ninety Two Paise Only |

| Sl. No. | Quantity. | Description | Unit | Rates | |
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| | | | | In Figures | In Words |
| 18 | 4.80 | Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. **P.No. 112, I.No. 14.62 of PWD SR 2018-19** | Sqm | 1330.56 | Rupees One Thousand Three Hundred Thirty and Fifty Six Paise Only |
| 19 | 1.08 | KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 **steel glazed windows and ventilators** side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm. weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinery complete asrews, rawl plugs and teak wood gutties to R.C.C.columns on sides, R.C.C. l**intels or beams at top and floor at bottom** | Sqm | 4209.84 | Rupees Four Thousand Two Hundred Nine and Eighty Four Paise Only |
| 20 | 6.30 | KSRB 7.5 : Providing and fixing **pull and push type rolling shutters** of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. **Shutter size 3mx2.8 m.** Specification No. KBS 7.10 / 7.12. **(P.No. 33, I.No. 7.5 of CSR 2018-19)** | Sqm | 2815.56 | Rupees Two Thousand Eight Hundred Fifteen and Fifty Six Paise Only |
| 21 | 6.30 | KSRB 7.15 : Providing, fabricating, assembling and fixing in **position aluminium partitions using aluminium sections** of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm. section weight 1.094kg/m, double grove thickness 1.9mm section weight 1.094kg/m and bottom member 114.3 mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m; aluminium louvres section of size 36.5mmx34.93mm 1.45mm. thick section weight 0.429kg/m; bottom portions provided with 12mm. thick prelaminated sheet both sides of approved colour lamination exterior grade upto 0.9m height, spacing of vertical member not exceeding 0.6 m. c to c; sections are cut to the required lengths, joints mitered and corners grinded subdividing frames tennoned and rivetted to the frames; the assembled frame stiffened with corner angles, stripped and fixed with screws, rawl plugs and teak wood gutties to R.C.C.columns on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistelling and making good with cement mortar to match the surface; providing and fixing 5.5mm. thick | Sqm | 3633.12 | Rupees Three Thousand Six Hundred Thirty Three and Twelve Paise Only |

| Sl. No. | Quantity. | Description | Unit | Rates | |
|---|---|---|---|---|---|
| | | | | In Figures | In Words |
| 22 | 8.10 | Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 6, I.NO - 2.3, PWD SR 18-19) | Cum | 322.92 | Rupees Three Hundred Twenty Two and Ninety Two Paise Only |
| 23 | 30.00 | Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 94, I.NO - 13.73.2, PWD SR 18-19) | Mtr | 401.76 | Rupees Four Hundred One and Seventy Six Paise Only |
| 24 | 8.10 | Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 7, I.NO - 2.11, PWD SR 18-19) | Cum | 130.68 | Rupees One Hundred Thirty and Sixty Eight Paise Only |
| 25 | 1 | 10000 LPD R.O. Plant RAW WATER PUMP:Quantity : 1No.Type: Centrifugal Mono Block MOC & Make : UKL Motor Rating : 0.75 HP, PRESSURE SAND FILTER: Quantity : 1No., Capacity : 1000 LPH , MOC & Make of Housing : UKL, MOC & Make of Cartridge : UKL, Capcity : 100 LPH, MOC & Make of Vessel : UKL, Diameter : 40 mm, Type of Valve : Single Multiport, media : Support bed + Sand, MICRON CARTRIDGE FILTER :, Quantity : 1 Set., Filter Rating : 5 Microns, Size : 20 " Long, ANTISCALANT DOSING PUMPS:Quanity : 1 Set, Type : Electro - magnetic, Capacity : 1.5 LPH @ 4 Bar, HIGH PRESSURE PUMP:Quantity : 1 No, Capacity : 1700 LPH,Type of Pump : Vertical Multistage Centrigugal Pump, MOC : SS 304, Motor Rating : 2 HP, 3 Phase, Maximum Pressure : 12 Kg/ cm2, Make : UKL, RESERVE OSMOSIS SYSTEM : Quantity : 1 No, Capacity : 1000 LPH Module Type, Membrane Specifications {Polyamde}, Make of Membrane : UKL, UV STERILISER, Max. Treatment Flow : 1 m3/hr, No. of Lamps : 1 No, Wattage : 39 W, Efficiency : 99.99%, Material of Construction : SS 304, PRODUCT WATER QUALITY: Appearance : Crystal Clear, Abide by the ISO Standards, S S Tank : 304 Grade with 16 guage 2000 liters Capacity 304 Grade 10 Gauage SS Pipe {with | Nos | 946000.00 | Rupees Nine Hundred Forty Six Thousand Only |
| 26 | 6 | Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch etc., complete and as per the directions of the Engineer-in-charge of the work | Point | 245.00 | Rupees Two Hundred Forty Five Only |
| 27 | 6 | c) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch | Point | 363.00 | Rupees Three Hundred Sixty Three |
| 28 | 30 | Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete (1.6.5) 4"x4"x3" ( 101x101x76mm) etc., complete and as per the directions of the Engineer-in-charge of the work | Each | 68.00 | Rupees Sixty Eight Only |
| 29 | 18 | (1.6.1) 12"x12"x3" (300x300x76mm) | Each | 116.00 | Rupees One Hundred |
| 30 | 15 | (1.6.3)10"x7"x3" (254x178x76mm) | Each | 87.00 | Rupees Eighty Seven |
| 31 | 33333 | Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws etc., complete and as per the directions of the Engineer-in-charge of the work | SqCM | 0.25 | and Twenty Five Paise Only |

| Sl. No. | Quantity. | Description | Unit | Rates | |
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| | | | | In Figures | In Words |
| 32 | 20 | Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete. upto 50mm conduit in brick wall etc., complete and as per the directions of the Engineer-in-charge of the work | Mtr | 21.00 | Rupees Twenty One Only |
| 33 | 20 | Supplying heavy gauge PVC Conduit Pipe 19/20 mm dia 2 mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary etc., complete and as per the directions of the Engineer-in-charge of the work | Mtr | 56.00 | Rupees Fifty Six Only |
| 34 | 4 | Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps etc., complete and as per the directions of the Engineer-in-charge of the work | Each | 88.00 | Rupees Eighty Eight Only |
| 35 | 4 | Supplying patti type fluorescent tube light fitting of 2' - suitable for 14 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with HF Electronic Ballast , locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC . Supply including T5 lamp etc., complete and as per the directions of the Engineer-in-charge of the work | Each | 591.00 | Rupees Five Hundred Ninety One Only |
| 36 | 15 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A 1.5 sqmm etc., complete and as per the directions of the Engineer-in-charge of the work | Mtr | 18.60 | Rupees Eighteen and Sixty Paise Only |
| 37 | 8 | Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 60/100 watts 230V GLS lamp etc., complete and as per the directions of the Engineer-in-charge of the work | Each | 747.00 | Rupees Seven Hundred Forty Seven Only |
| 38 | 1 | Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia etc., complete and as per the directions of the Engineer-in-charge of the work | No | 2727.00 | Rupees Two Thousand Seven Hundred Twenty Seven Only |
| 39 | 25.00 | Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A etc., complete and as per the directions of the Engineer-in-charge of the work | Mtr | 140.40 | Rupees One Hundred Forty and Forty Paise Only |
| 40 | 25.00 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct etc., complete and as per the directions of the Engineer-in-charge of the work | Mtr | 10.80 | Rupees Ten and Eighty Paise Only |
| 41 | 20.00 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete For Cutting Road Surface etc., complete and as per the directions of the Engineer-in-charge of the work | Mtr | 85.00 | Rupees Eighty Five Only |
| 42 | 4.00 | Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV 40mm dia GI pipe etc., complete and as per the directions of the Engineer-in-charge of the work | Mtr | 345.00 | Rupees Three Hundred Forty Five Only |

| Sl. No. | Quantity. | Description | Unit | Rates | |
|---|---|---|---|---|---|
| | | | | In Figures | In Words |
| 43 | 1.00 | Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers 16Sqmm etc etc., complete and as per the directions of the Engineer-in-charge of the work | No. | 280.00 | Rupees Two Hundred Eighty Only |

"DTS APPROVED"

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore - 92

**Note:**

1 Item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of quantities (refer: ITB Clause 7.2 and CC Clause 33.2)

2 Unit rates and prices shall be quoted by the Tender in Indian rupees.

3 Where there is a discrepancy between the rate in figures and words the rates in words will govern (ITB Clause 19.1(a)

4 Where there is a discrepancy between the unit rate and the line item total resulting from multyplying the unit rate by quantity the unit rate quoted shall govern (ITB Clause 19.1(b))